

What is claimed is:

1. A preparation device of polyester, which adds an organic solvent to a dicarboxylic acid and a diol so that the dicarboxylic acid and the diol are melt-polycondensated to prepare polyester, comprising:

a polycondensating reactor in which the dicarboxylic acid and the diol are polycondensated under a normal pressure by adding a catalyst having a hydrophobic property thereto,

wherein a separating device, which separates the organic solvent and water that are distilled from the reactor, while discharging the separated water outside the system and fluxing the organic solvent, is attached to the reactor.

2. The preparation device of polyester according to claim 1, wherein said catalyst is a distannoxane catalyst.

3. The preparation device of polyester according to claim 1 or 2, wherein said polycondensating reactor is an longitudinal-type reactor in which a stirrer, which maintains separated two-phase states having a phase consisting of a mixed solution containing the dicarboxylic acid, the diol and polyester to be generated and an organic solvent phase covering the other phase, and stirs the mixed solution, is installed.

4. The preparation device of polyester according to claim 3, wherein a dissolving vessel for melting and uniforming the dicarboxylic acid and the diol is installed at the preceding stage of the polycondensating reactor.